Index of Claims

| Application No. | Applicant(s)     |
|-----------------|------------------|
| 09/943,893      | MATSUYAMA ET AL. |
| Examiner        | Art Unit         |

Steven S. Paik

2876

| 7 | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla  | Date     |  |                 |   |  |  |  |           | Claim  |          |      |  |          | Date         |          |   |   |                 | CI       | aim      | Date  |  |          |          |          |          |          |          |          |          |          |          |
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|  | 3        |  |                 |   |  |  |  |           |  |          |      |  | <u>~</u> |              |          |   |   |                 |          | İ        |       |  | <u></u>  |          |          |          |          |          |          |          |          |          |
| Final  | Original | 4/9/04   |                 |   |  |  |  |           |  |          |      | Final  | Original |              |          |   |   |                 |          |          |       | Final  | Original |          |          |          |          |          |          |          |          |          |
| ίĒ   | ij       | 4/9  |                 |   |  |  |  |           |  |          |      | 這  | 충        |              |          |   |   |                 |          |          |       | ΙŒ   | ) ii     |          |          |          |          |          |          |          |          | ŀ        |
|  |          | L  |                 |   |  |  |  |           |  | _[       |      |  |          |              |          | $\perp$   |   | Ш               |          | $\perp$  |       |  |          |          |          |          |          |          |          |          | $\perp$  |          |
|  | 1        | 1  |                 |   |  |  |  |           |  | ╝        |      |  | 51       |              | _        | $\perp$   |   | Ш               |          |          |       |  | 101      |          |          |          |          |          |          |          |          | _        |
|  | 2        | 1  |                 |   |  |  |  |           |  | _        |      |  | 52       |              |          |   | <u> </u>  |                 |          | $\perp$  |       |  | 102      |          |          |          |          | $\Box$   |          |          |          | _        |
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|  | _4       | √  |                 |   |  |  |  |           |  |          |      |  | 54       |              |          |   |   |                 |          |          |       |  | 104      |          |          |          |          |          |          |          |          | ╝        |
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|  | 6        | 1  |                 |   |  |  |  |           |  |          |      |  | 56       |              |          |   |   | l               |          |          |       |  | 106      |          |          |          |          |          |          |          |          |          |
|  | 7.       | 1  |                 |   |  |  |  |           |  |          |      |  | 57       |              |          |   |   |                 |          |          |       |  | 107      |          |          |          |          |          |          |          |          |          |
|  | 18       |  |                 |   |  |  |  |           |  | _        |      |  | 58       |              |          |   |   |                 |          |          |       |  | 108      |          |          |          |          |          |          |          |          |          |
|  | 9        | 1  |                 |   |  |  |  |           |  |          |      |  | 59       |              |          |   |   |                 |          |          |       |  | 109      |          |          |          |          |          |          |          |          |          |
|  | 10       | 1  |                 |   |  |  |  |           |  | :        |      |  | 60       |              |          | 丄   |   |                 |          |          |       |  | 110      |          |          |          |          |          |          |          |          |          |
|  | 11       | <b>√</b>   |                 |   |  |  |  |           | $oxed{\mathbb{I}}$   | _]:      |      |  | 61       |              |          |   |   |                 |          |          |       |  | 111      |          |          |          |          |          |          |          |          |          |
|  | 12       | ٧  |                 |   |  |  |  |           | $oxed{oxed}$   | _]:      |      |  | 62       |              |          |   |   | $\Box$          |          |          |       |  | 112      |          |          |          |          |          |          |          |          |          |
|  | 13       | 1  |                 |   |  |  |  |           | $oldsymbol{ol}}}}}}}}}}}}}}}}$ | _]:      |      |  | 63       | $oxed{oxed}$ | $\prod$  | $oldsymbol{\mathbb{L}}$   | $oldsymbol{ol}}}}}}}}}}}}}}}$ |                 |          |          |       |  | 113      |          |          |          |          |          |          | _]       |          |          |
|  | 14       | <b>√</b>   |                 |   |  |  |  |           |  | _]:      |      |  | 64       |              |          | $oldsymbol{ol}}}}}}}}}}}}}}}$ | $oldsymbol{ol}}}}}}}}}}}}}}}$ |                 |          |          |       |  | 114      |          |          |          |          |          |          | J        | $\Box$   |          |
|  | 15       | 1  | П               |   |  |  |  |           |  |          |      |  | 65       | . T          |          |   | 1   |                 |          |          |       |  | 115      |          |          |          |          |          |          |          |          |          |
|  | 16       | 1  | П               |   |  |  |  |           | $\neg$   | _        |      |  | 66       |              |          | $\top$  | T   |                 |          |          |       |  | 116      |          |          |          |          |          |          |          |          | $\neg$   |
|  | 17       | 1  |                 |   |  |  |  |           | T  | <b>-</b> |      |  | 67       |              | $\neg$   |   | T   |                 |          |          |       |  | 117      |          |          |          |          |          |          |          |          | $\neg$   |
|  | 18       | 1  |                 |   |  |  |  |           |  |          |      |  | 68       |              | 一        | T   | T   |                 | $\neg$   |          |       |  | 118      |          |          |          |          |          |          |          |          | T        |
|  | 19       | 1  | П               |   |  | П  |  |           | $\neg$   |          |      |  | 69       | _            | T        | T   |   | $\Box$          |          |          |       |  | 119      |          |          |          |          |          |          |          |          | $\neg$   |
|  | 20       | 1  | П               |   |  | П  |  | $\Box$    | $\neg$   | _        |      |  | 70       | $\neg$       |          | $\top$  | 1   |                 |          |          |       |  | 120      |          |          |          |          |          |          |          |          |          |
|  | 24       | 1  | П               |   |  |  |  | $\Box$    | $\neg$   | 7        |      |  | 71       | 寸            | $\neg$   |   | $\top$  | $\Box$          |          |          |       |  | 121      |          |          |          |          |          |          |          | $\neg$   |          |
|  | 22       | √  | П               |   |  |  |  | T         |  | 7        |      |  | 72       | 1            | $\neg$   | 1   | $\top$  | $\Box$          |          |          | 1     |  | 122      |          | $\Box$   |          |          |          |          |          | 寸        |          |
|  | 23       | <b>V</b>   | П               |   |  |  |  |           | T  | 7        |      |  | 73       | 1            | $\neg$   |   | İ   |                 |          |          | 1     |  | 123      |          | T        |          |          |          |          |          |          | T        |
|  | 24       | 1  |                 |   |  |  |  |           |  | 7        |      |  | 74       | $\neg$       | _        |   | 1   |                 |          |          |       |  | 124      |          |          |          |          |          |          | $\neg$   | 寸        |          |
|  | 25       | 1  | $\Box$          |   | $\overline{}$                                    | П  |  |           |  |          |      |  | 75       | 一            | _        |   | _   | 1               | _        | $\neg$   | 1     |  | 125      |          |          |          |          |          |          | 寸        |          | $\neg$   |
|  | 26       | 1  |                 |   | _  | $\vdash$   |  |           |  | 7        |      |  | 76       | _            | _        | ╅   | 1   | 1 1             |          | $\top$   |       |  | 126      |          |          |          |          |          |          | T        |          | ┪        |
|  | 27       | 1  | $\Box$          |   |  |  | _  |           |  |          |      |  | 77       | $\dashv$     | $\dashv$ | $\uparrow$  | 1   | $\Box$          |          | 1        | 1     |  | 127      |          | _        |          |          |          |          | $\dashv$ |          | ┪        |
|  | 28       | 1  | Н               |   |  |  |  | H         |  | 1        |      |  | 78       | 1            | $\dashv$ |   |   | 1               |          | 1        |       |  | 128      |          | Ħ        |          |          |          |          |          |          | -        |
|  | 29       | Ė  | Н               |   |  |  |  |           |  | $\dashv$ |      |  | 79       | $\dashv$     | +        | +   | +   | 1-1             | $\dashv$ |          |       |  | 129      |          |          |          |          |          |          | 7        | 7        | ╡        |
|  | 30       | -  | $\vdash$        | _ | _  |  |  | $\vdash$  | _  | $\dashv$ |      | $\vdash$   | 80       | +            | $\dashv$ | +   | +   | 1               |          | +        |       | <del></del>                                      | 130      |          | $\dashv$ |          | $\dashv$ |          |          | $\dashv$ | $\dashv$ | ┪        |
| <u> </u>   | 31       |  | Н               |   | _  | -  |  | -         |  | $\dashv$ |      |  | 81       | $\dashv$     | +        | +   | $\top$  | $\vdash$        | $\dashv$ | $\top$   | 1     |  | 131      | Н        | $\dashv$ | _        |          | $\neg$   |          |          | _        |          |
|  | 32       |  | Н               |   |  | $\vdash$   | Н  | $\vdash$  | _  | $\dashv$ |      |  | 82       | $\dashv$     | _        | +   | $\top$  | $\vdash$        | $\dashv$ |          | 1     |  | 132      | Н        | $\dashv$ |          |          | $\neg$   |          | _        | $\dashv$ | $\dashv$ |
|  | 33       |  | Н               |   |  | $\vdash$   |  | H         | <b>-</b>   | $\dashv$ |      |  | 83       | $\dashv$     |          |   | +   | ╁               |          |          | 1     |  | 133      |          | $\Box$   |          | $\vdash$ | $\dashv$ |          | $\dashv$ | ┪        | ┪        |
|  | 34       | 1  | $\vdash$        |   | <del>                                     </del> |  |  | H         | $\dashv$   | $\dashv$ |      | $\vdash$   | 84       | $\dashv$     | $\dashv$ | 十   | +   | $\vdash$        | ++       | $\dashv$ | 1     | <del> </del>                                     | 134      | Н        | H        | -        |          |          |          | $\vdash$ | $\dashv$ | $\dashv$ |
|  | 35       | 1  |                 |   |  |  |  | $\vdash$  | $\dashv$   | $\dashv$ |      |  | 85       | _            | _        | +   | +   | Н               |          | 1        | 1     | <b> </b> -                                       | 135      | Н        | $\vdash$ | $\neg$   | Н        | $\vdash$ |          |          |          | $\dashv$ |
|  | 36       | <del>                                     </del> | $\vdash$        |   |  | _  | $\vdash$   | $\forall$ | $\dashv$   | $\dashv$ |      |  | 86       | $\dashv$     | 十        | +   | +   | Н               |          | +        | 1     |  | 136      | $\vdash$ | $\vdash$ |          |          | -        |          |          | $\dashv$ | $\dashv$ |
|  | 37       | <del>                                     </del> | $\vdash$        |   |  |  | $\vdash$   | $\vdash$  | $\dashv$   | $\dashv$ |      |  | 87       | -            |          | - -   | +   | $\vdash$        |          | +        | 1     | <del> </del>                                     | 137      | H        | $\vdash$ | -        |          |          | $\vdash$ | $\dashv$ | 7        | $\dashv$ |
| <u> </u>   | 38       | T  | Н               |   |  | $\vdash$   | $\vdash$   | $\forall$ | $\dashv$   | $\dashv$ |      | $\vdash$   | 88       | $\dashv$     | +        | +   | +   | $\vdash$        |          | +        | 1     | <del> </del>                                     | 138      | Н        | H        |          | $\vdash$ | $\dashv$ | =        | $\dashv$ | $\dashv$ | $\dashv$ |
| <u> </u>   | 39       | $\vdash$   | $\vdash$        |   | $\vdash$   | $\vdash$   | Н  | $\forall$ | $\dashv$   | $\dashv$ |      | $\vdash$   | 89       | $\dashv$     | $\dashv$ | +   | ╁   | Н               |          | -        | 1     |  | 139      | Н        | $\vdash$ | _        | $\vdash$ | $\vdash$ |          |          | $\dashv$ | $\dashv$ |
| <b>├</b>   | 40       | $\vdash$   | H               |   | $\vdash$   |  |  | $\forall$ | $\dashv$   | $\dashv$ |      | $\vdash$   | 90       | $\dashv$     | $\dashv$ | +   | +   | $\vdash$        | +        | +        | 1     | <b></b>  | 140      | Н        | $\vdash$ |          | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
| <b>—</b>   | 41       | $\vdash$   | Н               |   | <u> </u>   | $\vdash$   | <del>                                     </del> | $\vdash$  | $\dashv$   | $\dashv$ |      |  | 91       | $\dashv$     | $\dashv$ | +   | +   | $\vdash$        |          | +        | 1     |  | 141      | $\vdash$ | H        | $\dashv$ | $\vdash$ | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$ |
| -  | 42       | <del>                                     </del> | $\vdash$        |   |  | <del>                                     </del> |  | $\forall$ | $\dashv$   | $\dashv$ |      | $\vdash$   | 92       | $\dashv$     | $\dashv$ | +   | +   | $\vdash$        | $\vdash$ | +        | 1     |  | 142      | $\vdash$ | $\vdash$ | -        | $\vdash$ | $\dashv$ |          | -        | $\dashv$ | $\dashv$ |
| -  | 43       | $\vdash$   | H               |   |  | <del>                                     </del> |  | $\forall$ | $\dashv$   | $\dashv$ |      | $\vdash \vdash \vdash$                           | 93       | $\dashv$     | $\dashv$ | +   | +   | $\vdash$        | +        | $\dashv$ | liii  |  | 143      | $\vdash$ | $\vdash$ |          |          | $\vdash$ | $\vdash$ | -        | $\dashv$ | $\dashv$ |
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| <del>                                     </del> | 47       | -  | $\vdash$        |   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$  | $\dashv$   | $\dashv$ |      | <del>  </del>                                    | 98       | $\dashv$     | -        | $\dashv$  | +   | $\vdash \vdash$ |          | +        | ł     |  | 148      | Н        | $\vdash$ |          | -        | $\vdash$ | -        | -        | $\dashv$ | $\dashv$ |
| _  | 49       | -  | $\vdash$        |   |  | $\vdash$   | $\vdash$   | -         | +  | $\dashv$ |      |  | 99       | $\dashv$     | +        | +   | +   | $\vdash$        | $\vdash$ | +        | liiii | <del></del>                                      | 149      | Н        | $\vdash$ |          | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$ |
| <b>-</b>   | 50       | <del> </del>                                     |                 |   | $\vdash$   | $\vdash$   | $\vdash$   | $\dashv$  | +  | $\dashv$ |      | $\vdash$   | 100      | $\dashv$     | +        | +   | +   | +-              | $\vdash$ | +        | liii  | <del> </del>                                     | 150      | Н        | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ |          | +        | $\dashv$ | $\dashv$ |
|  | 30       | L  | <u>1</u>        |   |  |  | 1  |           |  | :        | :::: | L  | 100      | - 1          | - 1      | - 1   | 1   | 1 1             | 1        | 1        | I     | l  | I IOU    |          | ı I      |          | - 1      |          |          | - 1      | - 1      | - 1      |